

PLAN OF STUDY (3 YEARS)						
FAKULTI	MECHANICAL ENGINEERING (EM)					
PROGRAM	DIPLOMA OF MECHANICAL ENGINEERING					
CODE	EM110					
START	SEMESTER 1, SESI 2019/2020 (SEP 2019)					
PLAN ID #	7089					
SEMESTER 1						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
CTU101	FUNDAMENTALS OF ISLAM	2	0	0	2	-
ELC121	INTEGRATED LANGUAGE SKILLS I	3	0	0	3	-
UED101	MATHEMATICAL THINKING FOR NOVICES	0	0	0	0	-
XYZ111	CO-CURICULUM I	0	0	2	1	-
MAT183	CALCULUS I	3	1	0	3	-
PHY130	FUNDAMENTAL PHYSICS I	2	1	2	3	-
MEC101	INTRODUCTION TO ENGINEERING	2	0	2	3	-
MEC132	ENGINEERING DRAWING	1	0	4	3	-
	Total				18	
SEMESTER 2						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
CTU151	ISLAMIC THOUGHT AND CIVILIZATION	2	0	0	2	-
ELC151	INTEGRATED LANGUAGE SKILLS II	3	0	0	3	-
XYZ121	CO-CURICULUM II	0	0	2	1	-
CSC128	FUNDAMENTALS OF COMPUTER PROBLEM SOLVING	2	0	2	3	-
MAT235	CALCULUS II FOR ENGINEERS	3	1	0	3	MAT183
MEC111	STATICS	3	1	0	3	PHY130
MEC281	MATERIAL SCIENCE	3	1	0	3	-
	Total				18	
SEMESTER 3						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
CTU211	SCIENCE AND TECHNOLOGY IN ISLAM	2	0	0	2	-
ELC231	INTEGRATED LANGUAGE SKILLS III	3	0	0	3	-
XYZ131	CO-CURICULUM III	0	0	2	1	-
MEC211	STRENGTH OF MATERIALS	3	1	0	3	MEC111
MEC221	DYNAMICS	3	1	0	3	MEC111
MEC241	FLUID MECHANICS	3	1	0	3	PHY130
MEC291	MECHANICS AND MATERIALS LAB	0	0	2	1	CO-REQ MEC211 / MEC221 / MEC281

MEM160	WORKSHOP PRACTICE	1	0	3	2	-
	Total				18	
SEMESTER 4						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
ELE291	BASIC ELECTRICAL ENGINEERING	2	0	2	3	-
MEC251	THERMODYNAMICS	3	1	0	3	PHY130
MEC294	THERMOFLUIDS LAB	0	0	2	1	CO-REQ MEC241 / MEC251
MEM360	MANUFACTURING PROCESSES AND TECHNOLOGY	2	0	2	3	-
MEC299	FINAL YEAR PROJECT 1	0	2	0	2	-
MEX3XX	ELECTIVE 1	2	0	2	3	-
	Total				15	
SEMESTER 5						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
ENT300	FUNDAMENTALS OF ENTREPRENEURSHIP	3	0	0	3	-
MEC300	FINAL YEAR PROJECT 2	0	1	6	4	-
MEC331	MACHINE ELEMENT DESIGN	3	1	0	3	CO-REQ MEC211
MEX3XX	ELECTIVE 2	2	0	2	3	
MEX3XX	ELECTIVE 3	2	0	2	3	
	Total				16	
SEMESTER 6						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEC390	INDUSTRY TRAINING	0	0	20	8	-
	Total				8	
	TOTAL CREDIT HOURS				93	
LIST OF ELECTIVES						
SEMESTER 4 (ELECTIVE 1 : MECHANICAL)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEC322	CONTROL SYSTEM AND INSTRUMENTATION	2	0	2	3	-
	Total				3	
SEMESTER 5 (ELECTIVE 2 - 3 : MECHANICAL)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEM376	PLANT ENGINEERING	2	0	2	3	-

MEM341	FLUID POWER TECHNOLOGY	2	0	2	3	MEC241
	Total				6	
SEMESTER 4 (ELECTIVE 1 : MANUFACTURING)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEM365	AUTOMATION	2	0	2	3	-
	Total				3	
SEMESTER 5 (ELECTIVE 2 - 3 : MANUFACTURING)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEM368	MACHINING TECHNOLOGY	2	0	2	3	-
MEM371	METROLOGY	2	0	2	3	-
	Total				6	
SEMESTER 4 (ELECTIVE 1 : AUTOMOTIVE)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEV351	AUTOMOTIVE ENGINE TECHNOLOGY	2	0	2	3	-
	Total				3	
SEMESTER 5 (ELECTIVE 2 - 3 : AUTOMOTIVE)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEV300	AUTOMOTIVE SERVICE WORKSHOP	2	0	2	3	-
MEV321	MOTOR VEHICLE TECHNOLOGY	2	0	2	3	-
	Total				6	
SEMESTER 4 (ELECTIVE 1 : AEROSPACE)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEA301	INTRODUCTION TO AEROSPACE ENGINEERING	2	0	2	3	-
	Total				3	
SEMESTER 5 (ELECTIVE 2 - 3 : AEROSPACE)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MEA351	PROPULSION	2	0	2	3	-
MEA321	AERODYNAMICS	2	0	2	3	-
	Total				6	
SEMESTER 4 (ELECTIVE 1 : NAVAL ARCHITECTURE)						
Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MES374	SHIP HYDROMECHANICS	2	0	2	3	-
	Total				3	
SEMESTER 5 (ELECTIVE 2 - 3 : NAVAL ARCHITECTURE)						

Code	Course	Contact Hrs			Credit	Co/Pre-REQ
		L	T	P	Hrs	
MES362	SHIP PRODUCTION & REPAIR	2	0	2	3	MEM160
MES311	SHIP STRUCTURE	2	0	2	3	MEC211
	Total				6	